


MEMORANDUM

TO: Governing Board Members

FROM: Kenneth G. Ammon, P.E., Deputy Executive Director,  for KGA
Everglades Restoration and Capital Projects

DATE: October 7, 2009

SUBJECT: Emergency Operations Center Data Management Center Improvements –
Contract Number 4600001912

Background:

The South Florida Water Management District (District) operates a Data Center, located in the Emergency Operations Center (EOC) building of its West Palm Beach headquarters. The Data Center supports all District information technology operations, including extensive databases, modeling, operations, and communications. The Data Center is required to remain in operation for normal daily business activities, through all storm events, and during the recovery process following storm events. Located within the EOC, the Data Center operates on a common power supply with the EOC, which includes Operations Control, Security for all District facilities, and the EOC when activated.

The EOC, Data Center, Operations Control Room, and Security Office all rely on the same emergency backup power supply, consisting of two aging generators and a single Uninterruptible Power Supply (UPS). The generators and UPS were designed to meet the emergency power needs that existed at the time of construction. Growth of the Data Center has significantly increased the power demand for both commercial power and emergency power, resulting in the UPS operating above recommended capacity and the generators incapable of meeting emergency power requirements. Over the past year, interruptions to the commercial power supply have demonstrated the vulnerability of the Data Center and Operations Control to unplanned loss of power. District operation of control structures is entirely dependent upon the ability of the Operations Control Room to function under all conditions. Therefore, the objectives of this project are to update the emergency power supply through adequately sized redundant generators and UPS, to provide a generator enclosure building capable of withstanding the same design conditions as the EOC, and on-site fuel storage for continuous operation for up to a two week loss of commercial power.

How this helps meeting the District's 10-year Strategic Plan:

This project will help Operations & Maintenance fulfill its flood control mission by facilitating the movement of water in a timely fashion during major storm events, regardless of availability of commercial power to the control room. It will also help

Mission Support's Information Technology Department store critical database, modeling, operations and communications information utilized by the District.

Funding Source: This is a 210-day contract with Ocean Gate General Contractors, Inc., the lowest responsive and responsible bidder, for construction of the EOC Data Management Center Improvements in the amount of \$1,340,535 for which ad valorem funds are budgeted.

This Board item impacts what areas of the District, both resource areas and geography: This item will impact the Mission Support and Operations & Maintenance Programs by increasing ability to store information and increasing reliability of the control room, respectively. The Everglades Restoration Construction Department will be responsible for construction management of the contract. The Everglades Restoration Engineering Department will be responsible for engineering during construction. Geographically, the area impacted is at the east side of the existing EOC Building at B-1 Headquarters, including the parking lot immediately adjacent.

What concerns could this Board item raise? One concern related to the contract is the temporary reduction in parking spaces available east of the EOC Building while construction is taking place. In order to offset the reduction, staff has arranged for additional spaces to be available at Lake Lytal Park.

Why should the Governing Board approve this item? This action is needed to allow the District to continue to accomplish its flood protection mission during extreme storm events such as hurricanes, and any other conditions resulting in a loss of commercial power to the EOC, Data Center, Operations Control Room and Security Office.

KGA/AS

Attachments – Resolution